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PERONOSPORA VITICOLA (B. & C.) DeBy.—On *Vitis*, various species and cultivated varieties (Missouri).

PERONOSPORA HALSTEDII, Farlow.—On *Vernonia noveboracensis* (Missouri). So far as we know, this species has been collected but once within the borders of Missouri.

PERONOSPORA OBDUCENS (Schroter).—On *Impatiens pallida* (Missouri).

PERONOSPORA GERANII, Pk.—On *Geranium Carolinianum* (Missouri).

PERONOSPORA ENTOSPOREA, B. & Br.—On *Aster novae-angliae* (Missouri).

PERONOSPORA ALTA, Fckl.—On *Plantago major* (Missouri).

PERONOSPORA GANGLIFORMIS (Berk.) DeBy.—On *Mulgedium*, sp. *Lactuca Canadensis* (Missouri).

PERONOSPORA SORDIDA, Berk.—On *Schrophularia nodosa* (Missouri).

CYSTOPUS BLITI (Biv.) Lev.—On *Amarantus retroflexus*, *Amarantus albidus* (Missouri and Colorado).

CYSTOPUS CANDIDUS (P.) Lev.—On *Capsella bursa-pastoris* (Missouri).

CYSTOPUS PORTULACÆ (DC.) Lev.—On *Portulaca oleracea* (Missouri).

CYSTOPUS CUBICUS (Strauss) Lev.—On *Tragopogon porrifolius*, *Senecio aureus* (Missouri); *Ambrosia artemisiaefolia* (Colorado and New Mexico).

SOME MILDEWS OF ILLINOIS.

BY L. H. PAMMEL, ST. LOUIS, MO.

For the past two seasons I have had an opportunity of collecting at several points in Illinois, near Chicago at Palatine, Cheltenham, Argyle Park and Lake View; also in the bottoms opposite St. Louis, which is a rich field for the collector not only in phænogams but fungi.

In the species enumerated, I have adopted the synonymy of the excellent paper on "The Erysipheæ of Illinois" by Prof. T. J. Burrill and Mr. F. S. Earle. From this paper it seems that some species are somewhat local, so that it will be of interest to add new localities for those and also such additional hosts as they were found on. One species new to the state has also been added.

SPHÆROTHECA CASTAGNEI, Lev.—On *Bidens chrysanthemoides*, Bluff Lake, Oct., '86; *B. connatus*, Bluff Lake, Nov., '87; *B. frondosa*, Chicago, Sept., '85; *Coreopsis aurea*, Argyle Pk., Aug., '87; *Taraxacum officinale*, Lake View, Sept., '85; *Veronica Virginica*, Bluff Lake, Nov., '86.

SPHÆROTHECA HUMULI (DC.) Burrill.—On *Agrimonia Eupatoria*, Cheltenham, Sept., '85, Lake View, Aug., '87.

SPHÆROTHECA PANNOSA (Wallr.) Lev.—On *Rosa lucida*, Lake View, Aug., '87. Mycelium abundant on cultivated as well as wild roses. Fruiting specimens not common.

ERYSIPHE COMMUNIS (Wallr.) Fr.—On *Amphicarpæa monoica*, Bluff Lake, Oct., '86; *Desmanthus brachylobus*, Bluff Lake, Oct., '87. Perithecia abundant on stems and branches. Fruit generally maturing after the leaves have fallen. *Ranunculus abortivus*, Fish Lake, Oct., '86. An abundance of mycelium was frequently found on young leaves and stems of *Astragalus Canadensis*, which very likely was the conidial stage of this species.

ERYSIPHE GALEOPSISIDIS, DC.—On *Stachys palustris*, Bluff Lake, Oct., '86.

ERYSIPHE CICHORACEARUM, DC.—On *Ambrosia trifida*, East St. Louis, Sept. '86, Lake View, Aug. '87; *Aster cordifolius*, Evanston, Aug., '86; *A. Drummondii*, Bluff Lake, Oct., '86, Lake View, Aug., '86; *A. diffusus*, Indian Lake, Oct., '87; *A. ericoides*, Fish Lake, Oct., '87; *A. junceus*, Lake View. Asci very often with three ascospores; *A. sagittifolius*, Bluff Lake, Oct., '87; *Cnicus altissima*, Bluff Lake, Oct., '87; *C. altissima*, var. *discolor*, Indian Lake, Oct., '87; *Helianthus annuus*, Lake View, Sept., '85; *H. doronicoides*, Fish Lake, Oct., '87; *H. grosseserratus*, Bluff Lake, Oct., '86; cult. *H. tuberosus*, Cheltenham, Oct., '85; *Pilea pumila*, Bluff Lake, Oct., '87; *Solidago Canadensis*, Bluff Lake, Oct., '87; *Tecoma radicans*, Bluff Lake, Oct., '86; *Verbena stricta*, Cheltenham, Oct., '85; *V. urticifolia*, Bluff Lake, Oct., '87; *Vernonia Baldwinii*, East St. Louis, Oct., '86; *V. fasciculata*, Indian Lake, Oct., '87; *Xanthium Canadense*, Lake View, Oct., '85, East St. Louis, Oct., '87.

UNCINULA AMPELOPSIDIS, Pk.—On *Ampelopsis quinquefolia*, Cheltenham, Oct., '85, Lake View, Sept., '86, Bluff Lake, Oct., '87; cult. *Vitis*, Engelwood, Aug., '86, East St. Louis, Oct., '87. An abundance of mycelium on *Vitis cinerea*, East St. Louis, somewhat later I found good fruiting material on cultivated specimens of the same species in Botanic Garden.

UNCINULA CIRCINATA, C. & P.—On *Acer dasycarpum*, Bluff Lake, Oct., '86, Oct., '87; very common. Our specimens are amphigenous, in some there is an abundance of mycelium on the upper as well as the lower surface of the leaf. The lower surface of the leaf is often covered quite uniformly with the persistent mycelium; on the upper it appears in roundish patches, which are often confluent with age.

UNCINULA GENICULATA, Gerard (in Bull. Torrey Bot. Club, Vol. IV, p. 48). Epiphyllous; mycelium persistent, in roundish spots or sometimes covering the entire upper surface of the leaf, not conspicuous; perithecia small, 80—90 μ in diameter, opaque, reticulations small, appendages hyaline, roughened, and often geniculate, usually twice as long as the diameter of the perithecium; asci 6—8, ovate; pedicels short; ascospores 4—6, usually 6, elliptical or oval, 7—12 x 12—16 μ . On *Morus rubra*, Bluff Lake, Oct., '86, Oct., '87.

UNCINULA MACROSPORA, Peck.—On *Ulmus Americana*, Bluff Lake, Oct., '86.

UNCINULA SALICIS (?) [DC.] Winter.—On *Salix*, sp., Cheltenham, Oct., '85; *S. cordata*, Lake View, Aug., '86.

PODOSPHÆRA OXYACANTHÆ (DC.) DBy.—On *Prunus Cerasus*, Englewood, Sept., '85; Fish Lake, Oct., '86. Frequently accompanied with *Cicinobolus Cessatii*, DBy.

MICROSPHÆRA ALNI (DC.) Winter.—On *Corylus Americana*, Palatine, Aug., '86; *Euonymus atropurpureus*, Bluff Lake, Oct., '87; *Forestiera acuminata*, Indian Lake, Sept., '86, Oct., '87; *Lonicera glauca*, Lake View, Aug., '86; *Sambucus Canadensis*, Cheltenham, Oct., '85, Lake View, Aug., '86, Bluff Lake, Oct., '86; *Syringa vulgaris*, Cheltenham, Oct., '85, Englewood, Oct., '85, Chicago, Aug., '86; *Lonicera glauca*, Lake View, Aug., '86.

MICROSPHÆRA DIFFUSA, C. & P.—On *Desmodium Canadense*, Cheltenham, Oct., '85, Lake View, Aug., '86; *D. canescens*, Lake View, Aug., '86.

MICROSPHÆRA ELEVATA, Burrill.—On *Catalpa*, sp., East St. Louis, Oct., '86.

MICROSPHÆRA QUERCINA (Schw.) Burrill.—On *Quercus imbricaria*, Bluff Lake, Nov., '86; *Q. macrocarpa*, Bluff Lake, Oct., '87.

MICROSPHÆRA RUSSELLII, Clinton.—On *Oxalis corniculata*, var. *stricta*, Palatine, Aug., '86, Bluff Lake, Oct., '87.

MICROSPHÆRA SEMITOSA, B. & C.—On *Cephalanthus occidentalis*, Bluff Lake, Oct., '86.

MICROSPHÆRA SYMPHORICARPI, Howe.—On *Symphoricarpus vulgaris*, Bluff Lake, Oct. '86.

SYNOPSIS OF THE NORTH AMERICAN SPECIES OF HYPOXYLON AND NUMMULARIA.

BY J. E. ELLIS AND B. M. EVERHART.

I. Macroxylon. Large, indurated, irregular, fibrous within.

a. Perithecia monostichous.

HYPOXYLON BROOMEIANUM, B. & C.*—Grev., IV, p. 94. On rotten logs. South Carolina, Rav., No. 1894. Irregular, brown, about $1\frac{1}{4}$ inches across, with a raised obtuse margin, about $\frac{1}{3}$ of an inch thick, brownish (within); surface quite even, with the exception of the punctiform ostiola; asci linear; sporidia uniseriate, elliptic, sec. Cke., in Grev., XI, p. 124, $12 \times 14 \mu$.

*For the sake of brevity, lists of synonyms and references to the different Exsiccati have been mostly omitted. The subgenera are those adopted by Cooke in Grevillea.